

76577 – 13.5 grams
Impact Melt Breccia



Figure 1: Photo of 76577. Scale in mm. S73-19645

Introduction

76577 was collected as a rake sample from the base of the North Massif – see section on 76501.

Petrography

It is a light tan, vesicular, impact melt rock with a poikilitic texture (figures 2 and 3). Mineral compositions have not been reported.

Chemistry

All we have for analyses of 76577 are data from fused bead electron probe analyses (table).

Processing

There are two thin sections of 76577.

References for 76577

Butler P. (1973) Lunar Sample Information Catalog Apollo 17. Lunar Receiving Laboratory. MSC 03211 Curator's Catalog. pp. 447.

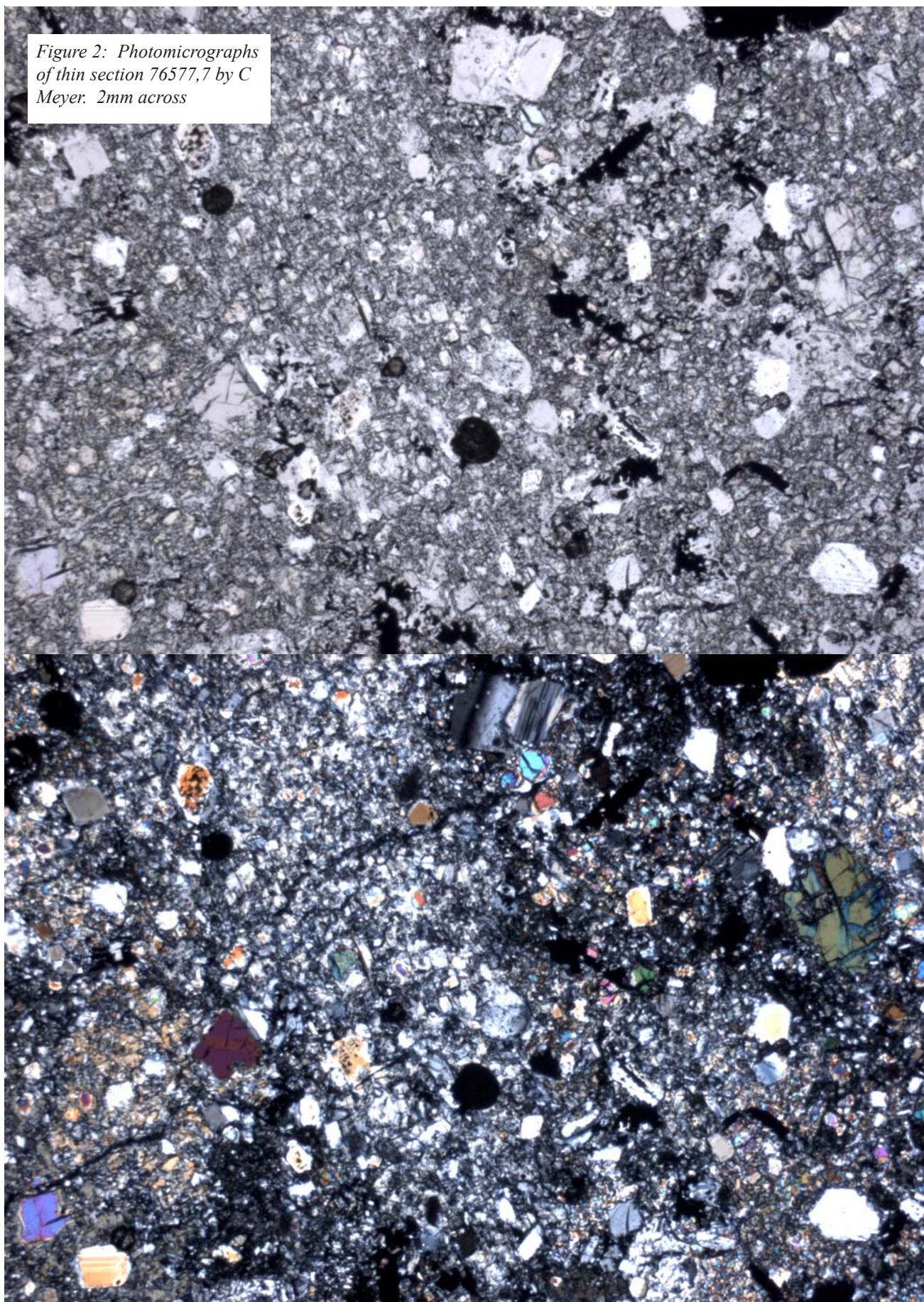
Meyer C. (1994) **Catalog of Apollo 17 rocks:** Volume 4. Curator's Office JSC 26088 pp. 644

Phinney W.C., Simonds C.H. and Warner J. (1974) Description, Classification and Inventory of Apollo 17 Rake Samples from Station 6. Curator's Catalog, pp. 46.

Simonds C.H. and Warner J.L. (1981) Petrochemistry of Apollo 16 and 17 samples (abs). *Lunar Planet. Sci. XII*, 993-995. Lunar Planetary Institute, Houston.

Wolfe E.W., Bailey N.G., Lucchitta B.K., Muehlberger W.R., Scott D.H., Sutton R.L and Wilshire H.G. (1981) The geologic investigation of the Taurus-Littrow Valley: Apollo 17 Landing Site. US Geol. Survey Prof. Paper, 1080, pp. 280.

*Figure 2: Photomicrographs
of thin section 76577,7 by C
Meyer. 2mm across*



*Figure 3: Photomicrographs
of thin section 76577,8 by C
Meyer. 2mm across*

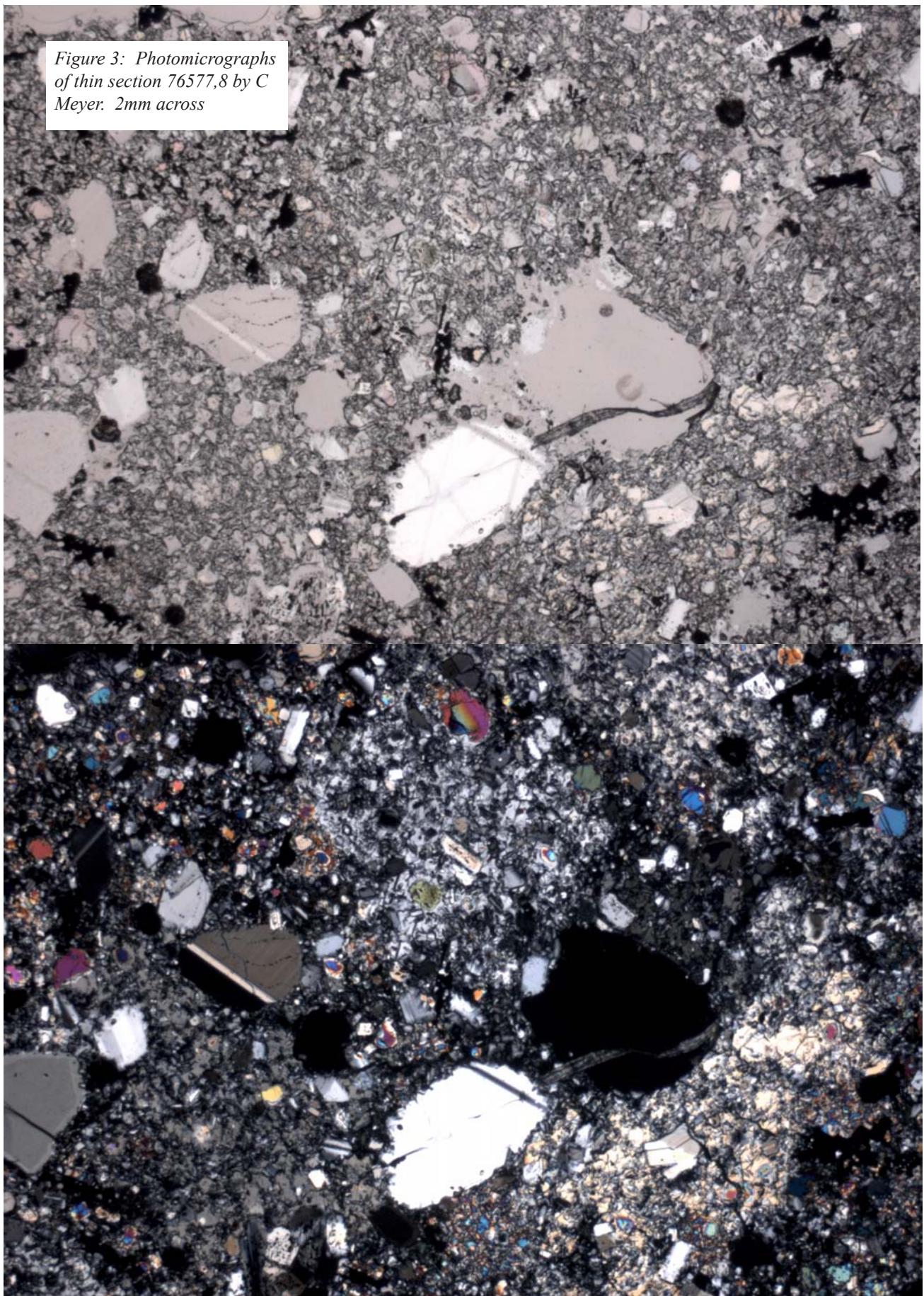


Table 1. Chemical composition of 76577.

reference Simonds81

weight

SiO ₂ %	46.34	(a)
TiO ₂	1.49	(a)
Al ₂ O ₃	18.07	(a)
FeO	8.02	(a)
MnO		
MgO	11.94	(a)
CaO	11.09	(a)
Na ₂ O	0.8	(a)
K ₂ O	0.33	(a)
P ₂ O ₅		

S %

sum

Sc ppm

V

Cr 1163 (a)

Co

Ni

Cu

Zn

Ga

Ge ppb

As

Se

Rb

Sr

Y

Zr

Nb

Mo

Ru

Rh

Pd ppb

Ag ppb

Cd ppb

In ppb

Sn ppb

Sb ppb

Te ppb

Cs ppm

Ba

La

Ce

Pr

Nd

Sm

Eu

Gd

Tb

Dy

Ho

Er

Tm

Yb

Lu

Hf

Ta

W ppb

Re ppb

Os ppb

Ir ppb

Pt ppb

Au ppb

Th ppm

U ppm

technique: (a) fused bead e probe

